

## WHAT IS CLAIMED IS:

1. A surface mount type chip antenna comprising a base made of a dielectric, magnetic substance or mixture thereof, at least one terminal portion provided on the mounted face of said base, a concave provided in the mounted face of said base except in said terminal portion, and at least one conductive wire wound around said base.

2. The surface mount type chip antenna, according to Claim 1, wherein said conductive wire is a flat and rectangular conductive wire and spirally wound in said concave.

3. The surface mount type chip antenna, according to Claim 2, wherein the base of said chip antenna is 5 mm or less in thickness and 30 mm or less in length, the depth of the concave is not more than 1/2 of the thickness of said base, and said flat and rectangular conductive wire is 2 mm or less in width and 0.01 to 0.2 mm in thickness.

4. The surface mount type chip antenna, according to Claim 1 or 2, wherein a plurality of said conductive wires and at least two of said terminal portions are provided to be responsive to a plurality of frequency bands.

5. A surface mount type antenna device comprising a surface mount type chip antenna arranged in the vicinity of metallic functional components, and filter circuits connected to the power source side terminal of said metallic functional components.

6. The surface mount type antenna device, according to Claim 5, wherein said metallic functional components include at least one of a loudspeaker, a vibrator and a small CCD camera.

7. The surface mount type antenna device, according to Claim 5 or 6, wherein the shortest distance between said surface mount type chip antenna and metallic functional components is not more than  $1/4$  of the wavelength of the electromagnetic wave radiated from that chip antenna or received by the antenna.

8. The surface mount type antenna device, according to Claim 5, wherein said chip antenna comprises a base made of a dielectric, magnetic substance or mixture thereof, at least one terminal portion provided on the mounted face of said base, a concave provided in the mounted face of said base except in said terminal portion, and at least one conductive wire wound around said base.

9. The surface mount type antenna device, according to Claim 8, wherein said conductive wire is a flat and rectangular conductive wire and constitutes a chip antenna spirally wound in said concave.

10. The surface mount type antenna device, according to Claim 9, wherein the base of said chip antenna is 5 mm or less in thickness and 30 mm or less in length, the depth of the concave is not more than  $1/2$  of the thickness of said base, and said flat and rectangular conductive wire is 2 mm or less in width and 0.01 to 0.2 mm in thickness.

11. The surface mount type antenna device, according to Claim 8, wherein a plurality of said conductive wires and at least two of said terminal portions are provided to be responsive to a plurality of frequency bands.

5        12. Communication equipment mounted with the surface mount type chip antenna according to Claim 1.

13. Communication equipment mounted with the surface mount type chip antenna according to Claim 5.